(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	manure and food processing was	l-	Application of sewage sludg	re	Disposal of wastewater by irrigatior	ı
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
6: Okoboji	 - 95 	 	 1.00 1.00	saturated zone (NOV-JUL)	 1.00 1.00	saturated zone (NOV-JUL)	 1.00 1.00
	 	Leaching limitation Restricted permeability	0.70 0.30		0.22 		0.22
28: Dickman	 - 95 	 Very limited Filtering capacity Leaching limitation	1 1.00	 Very limited Filtering capacity 	1 1.00	 Very limited Filtering capacity 	1 1.00
28B: Dickman	95	 Very limited Filtering capacity Leaching limitation	1.00	 Very limited Filtering capacity 	11.00	 Very limited Filtering capacity Too steep for surface application	1.00
28D2: Dickman	 - 95 	 Very limited Filtering capacity Leaching limitation Slope	 1 1.00 1 0.45 0.16	capacity	 1.00 0.16 	surface application	 1.00 1.00 10.40
52B: Bode	95	Not limited 		 Not limited 		 Somewhat limited Too steep for surface application	10.08
52C2: Bode	95	 Not limited 		 Not limited 		 Somewhat limited Too steep for surface application	 0.92

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Hancock County, Iowa

and soil name	Pct. of map unit	manure and food processing was	-	of sewage sludge wastewa		Disposal of wastewater by irrigation	ater	
	 	 Rating class and limiting features 		Rating class and limiting features				
	 	 	 	 	 	Too steep for sprinkler application	 0.02 	
52D2: Bode	 95 		 0.63 	 Somewhat limited Slope 	 0.63 		 1.00 0.78	
52E2: Bode	 95 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 		 1.00 1.00	
55: Nicollet	 95 	-	 1.00 	 Very limited Depth to saturated zone (NOV-JUL)	1 1.00	 Very limited Depth to saturated zone (NOV-JUL)	11.00	
72: Estherville	 95 	 Very limited Dense layer Filtering capacity Droughty		İ		 Very limited Filtering capacity Droughty 	11.00	
72B: Estherville		Dense layer 		1			1.00	
72C2: Estherville	 90	 Very limited		 Very limited	 	 Very limited	 	

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	l-	Application of sewage sludg	re	Disposal of wastewater by irrigation	
				Rating class and limiting features			
	 	 Dense layer	11.00		11.00	 Filtering capacity	11.00
	 	Filtering capacity	1.00		0.14	· • •	0.92
	 	Droughty - -	0.14	 - 		Droughty Too steep for sprinkler application	0.14
72D2:							i
Estherville	- 90 	Very limited Dense layer 	 1.00 	Very limited Filtering capacity	11.00	Very limited Too steep for surface application	 1.00
		Filtering	1.00	Slope	0.63	Filtering	11.00
		capacity Slope 	0.63	 Droughty 	0.14	capacity Too steep for sprinkler application	 0.78
		Droughty	0.14			Droughty	0.14
73C2:		 		 		 	
Salida	- 100 	Very limited Filtering capacity		Very limited Filtering capacity		Very limited Filtering capacity	 1.00
	 	Droughty Leaching limitation 	1.00 0.45 	Droughty 	1.00 	Droughty Too steep for surface application	1.00 0.68
90: Okoboji	 - 90 	 Very limited Depth to saturated zone (NOV-JUL)	 1.00 	 Very limited Depth to saturated zone (NOV-JUL)	 1.00 	 Very limited Depth to saturated zone (NOV-JUL)	 1.00
	 	Ponding Leaching limitation Restricted permeability	1.00 0.70 0.30	Restricted permeability	0.22		1.00 0.22
95: Harps	 - 95 	 Very limited Depth to saturated zone (NOV-JUL)		 Very limited Depth to saturated zone (NOV-JUL)		 Very limited Depth to saturated zone (NOV-JUL)	 1.00

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features		Rating class and limiting features			
	 	Leaching Ilimitation	0.70	 	 	 	
107: Webster	 - 95 	Depth to saturated zone (NOV-JUL)	11.00	saturated zone (NOV-JUL)	11.00	 Very limited Depth to saturated zone (NOV-JUL) 	11.00
135: Coland	 - 100 	Depth to saturated zone (NOV-JUL) Leaching limitation	11.00	saturated zone (NOV-JUL) Flooding	11.00	 Very limited Depth to saturated zone (NOV-JUL) Flooding	11.00
138B: Clarion	 - 95 	 	 	 Not limited 		 - Somewhat limited Too steep for surface application	10.08
138C2: Clarion	 - 95 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application Too steep for sprinkler application	 0.92 10.02
138D2: Clarion	 - 95 		 0.63 	 Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application Too steep for sprinkler application	1.00
174: Bolan	 - 90	 Very limited	 	 Very limited	 	 Very limited	

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Hancock County, Iowa

Map symbol and soil name	of map	Pct. Application of of manure and food- map processing waste unit		Application of sewage sludg 	Disposal of wastewater by irrigatior	1	
				Rating class and limiting features			
	 					· ·	11.00
174B: Bolan	 - 95 	Filtering	11.00			 Very limited Filtering capacity Too steep for surface application	1.00
221: Palms	 	Depth to saturated zone (NOV-JUL) Ponding Leaching	1.00 	Depth to saturated zone (NOV-JUL) Ponding	1.00 	 Very limited Depth to saturated zone (NOV-JUL) Ponding	 1.00 1.00
224: Linder	 	Filtering capacity Depth to saturated zone (NOV-JUL)	1.00 1.00 	Filtering capacity Depth to saturated zone	1.00	(NOV-JUL)	1.00
236B: Lester	 - 95 	 Not limited 		 Not limited 	i	 Somewhat limited Too steep for surface application	 0.08
236C2: Lester	 - 95 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application Too steep for sprinkler application	 0.92 0.02
236D2: Lester	 - 95	 Somewhat limited		 Somewhat limited		 Very limited	

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg		Disposal of wastewater by irrigatior	ı
	 			Rating class and limiting features			
		 Slope 	 0.63 	 Slope 	 0.63 	Too steep for surface application Too steep for sprinkler application	 1.00 0.78
236F: Lester	 90 	•	 1.00 	 Very limited Slope 	 1.00 	 Very limited Too steep for surface application Too steep for sprinkler application	11.00
259: Biscay	 	•		saturated zone (NOV-JUL) Filtering capacity	1.00 	 Very limited Depth to saturated zone (NOV-JUL) Filtering capacity	1.00
274: Rolfe	 - 100 	Restricted permeability Depth to saturated zone (NOV-JUL) Ponding	1.00 1.00 	Depth to saturated zone (NOV-JUL) Restricted permeability Ponding	1.00 1.00 		 1.00 1.00 1.00 0.07
288: Ottosen	 95 	 Very limited Depth to saturated zone (NOV-JUL) Restricted permeability	1.00 	saturated zone (NOV-JUL)	1.00 	 Very limited Depth to saturated zone (NOV-JUL) Restricted permeability	 1.00 0.22
308: Wadena	 - 100	 Very limited	 	 Very limited	 	 Very limited	

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludge		Disposal of wastewater by irrigation	
	 	Rating class and limiting features		Rating class and limiting features			Value
	 	 Filtering capacity	11.00	 Filtering capacity	11.00	 Filtering capacity	11.00
308B:	i	 	i	i	i		i
Wadena	100 	Very limited Filtering capacity 		 Very limited Filtering capacity 	1.00	Very limited Filtering capacity Too steep for surface application	1.00
335:	i	İ	i	İ	i	i .	i
Harcot	95 	Very limited Filtering capacity Depth to saturated zone (NOV-JUL) Leaching limitation	 1.00 1.00 0.70	capacity Depth to saturated zone (NOV-JUL)		Very limited Filtering capacity Depth to saturated zone (NOV-JUL) 	 1.00 1.00
348:							i
Fieldon	85 	Depth to saturated zone (NOV-JUL)	 1.00 1.00 1.00 0.70	saturated zone (NOV-JUL) Ponding Filtering capacity	1.00 	saturated zone (NOV-JUL) Ponding	 1.00 1.00 1.00
384:		 		 		 	
Collinwood	95 	Somewhat limited Restricted permeability	0.89	Somewhat limited Restricted permeability	0.78	Somewhat limited Restricted permeability	 0.78
384B:							
Collinwood	95 	Somewhat limited Restricted permeability 		Somewhat limited Restricted permeability 		Somewhat limited Restricted permeability Too steep for surface application	 0.78 0.08
388:							i
Kossuth	95	Very limited		Very limited		Very limited	

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	of manure and food- map processing waste		Application of sewage sludg	е	Disposal of wastewater by irrigation 	
		=		Rating class and limiting features		Rating class and limiting features	Value
		Depth to saturated zone (NOV-JUL) Leaching limitation Restricted permeability	1.00 1 0.70 0.30	saturated zone (NOV-JUL)	1.00 1 0.22 1 1	saturated zone (NOV-JUL)	10.22
390: Waldorf	 - 95 	 Very limited Depth to saturated zone (NOV-JUL) Restricted permeability Leaching limitation	 1.00 0.89 0.50	saturated zone (NOV-JUL) Restricted permeability	1.00 	 Very limited Depth to saturated zone (NOV-JUL) Restricted permeability	 1.00 0.78
485B: Spillville	 - 95 	 Not limited - -	 	 Not limited 	 	 Somewhat limited Too steep for surface application	1 10.08
506: Wacousta	 - 95 	 Very limited Depth to saturated zone (NOV-JUL) Ponding Leaching limitation	 1.00 1.00 1.00 0.70	saturated zone (NOV-JUL)	11.00	saturated zone (NOV-JUL)	11.00
507: Canisteo	 - 95 	 Very limited Depth to saturated zone (NOV-JUL) Leaching limitation	 1.00 0.70	saturated zone (NOV-JUL)	 1.00 1.00 	 Very limited Depth to saturated zone (NOV-JUL) 	 1.00
511: Blue Earth	 - 100 	 Very limited Depth to saturated zone (NOV-JUL) Ponding	1 1.00	saturated zone (NOV-JUL)	 1.00 1.00	saturated zone (NOV-JUL)	 1.00 1.00

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application of sewage sludg	Application of sewage sludge 		n
	 			Rating class and limiting features		Rating class and limiting features	Value
	 	 Leaching limitation	10.70	 		 	
524: Linder	 - 95 	Filtering capacity	 1.00 1.00	capacity	11.00	capacity	 1.00 1.00 1.00
562D2:		 	1	1		 	1
Storden	 90 	 Somewhat limited Slope 	 0.63 	Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application Too steep for sprinkler application	11.00
562E2: Storden	 - 95 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 	 Very limited Too steep for surface application Too steep for sprinkler application	11.00
562F2: Storden	 - 100 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 1 1 1		11.00
621: Houghton	 - 100 	 Very limited Depth to saturated zone (NOV-JUL) Ponding Leaching limitation Too acid	 1.00 1.00 1.00 0.90 1.00	saturated zone (NOV-JUL) Ponding Too acid	1.00 	saturated zone (NOV-JUL) Ponding	 1.00 1.00 1.00 0.07

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application Of sewage sludg Of sewage sludg	е	Disposal of wastewater by irrigation 	ı
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
640C2: Sunburg	 90 	 Not limited 	 	 Not limited 	 		 0.92 0.02
640D2: Sunburg	 90 		 0.63 	 Somewhat limited Slope 	 0.63 		 1.00 1.00 1.0
640E2: Sunburg	 90 		 1.00 1.00 1	 Very limited Slope 	 1.00 	 Very limited Too steep for surface application Too steep for sprinkler application	 1.00 1.00
640F2: Sunburg	 95 	=	 1.00 	 Very limited Slope 	 1.00 1.00 	sprinkler application	 1.00 1.00
641B: Clarion	 60 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	10.08
Sunburg	 40	 Not limited	 	 Not limited		 Somewhat limited	
		 	 	 	 	Too steep for surface application 	0.08

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Hancock County, Iowa

		I		I		I	
Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg		Disposal of wastewater by irrigation 	1
	i 			Rating class and limiting features			
641C2: Clarion	 60 	 Not limited 	 	 Not limited 	 	surface application	 0.92 0.02
Sunburg	40 	 Not limited 	 	 Not limited 	 		 0.92 0.02
641D2: Clarion	 55 		 0.63 	 Somewhat limited Slope 	1 1 1 0 . 63	 Very limited Too steep for surface application Too steep for sprinkler application	1.00
Sunburg	 45 			 Somewhat limited Slope 	 0.63 	surface application	 1.00 0.78
641E2: Clarion	 55 		11.00	 	1.00	surface application Too steep for	 1.00
Sunburg	 45 	 Very limited Slope 	 1.00	 Very limited Slope 	1 1 .00	sprinkler application Very limited Too steep for surface application	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Hancock County, Iowa

Map symbol and soil name	Pct. Application of of manure and food- map processing waste unit			Application of sewage sludg		Disposal of wastewater by irrigation	
	 	 Rating class and limiting features 		Rating class and limiting features		 Rating class and limiting features 	
	 	 		 		Too steep for sprinkler application	11.00
642D2: Sunburg	 55 		 0.63 	 Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application Too steep for sprinkler application	 1.00 0.78
Salida	 40 	Filtering capacity Droughty 		 Slope		surface application	 1.00 1.00 1.00 0.78
654: Corwith	 95 	•	1 1.00	 Very limited Depth to saturated zone (NOV-JUL)	1 1.00	 Very limited Depth to saturated zone (NOV-JUL)	1 1 .00
655: Crippin	 95 	 Very limited Depth to saturated zone (NOV-JUL)	11.00	 Very limited Depth to saturated zone (NOV-JUL)		 Very limited Depth to saturated zone (NOV-JUL)	1 1.00
658: Mayer	95 	Depth to saturated zone (NOV-JUL)	 1.00 1.00 1.00 0.70	saturated zone (NOV-JUL) Filtering capacity	 1.00 1.00 	saturated zone (NOV-JUL)	11.00
659: Mayer	 95	 Very limited	 	 Very limited	 	 Very limited	

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Hancock County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was					1
		Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
	 	Depth to saturated zone (NOV-JUL)	11.00	Depth to saturated zone (NOV-JUL)	11.00	Depth to saturated zone (NOV-JUL)	 1.00
		Filtering capacity Leaching limitation	1.00	Filtering capacity	1.00	Filtering capacity 	11.00
787B: Vinje	 95 	 Somewhat limited Restricted permeability 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 Somewhat limited Restricted permeability 	 0.22 	 Somewhat limited Restricted permeability Too steep for surface application	 0.22 0.08
787c2: Vinje	 - 95 	 Somewhat limited Restricted permeability 	 0.30 	 Somewhat limited Restricted permeability 	 0.22 		 0.92 10.22 0.02
811: Muskego	 - 100 	 Very limited Restricted permeability	1 1.00	saturated zone	 1.00	saturated zone	 1.00
		 Depth to saturated zone (NOV-JUL)	11.00	(NOV-JUL) Restricted permeability	11.00	(NOV-JUL) Restricted permeability	11.00
		(NOV-001) Ponding Leaching limitation	1.00 0.90		11.00	 Ponding 	11.00
823: Ridgeport	 - 100 	 Very limited Filtering capacity Droughty	11.00	capacity	1 1.00 10.93	capacity	 1.00 0.93
823B: Ridgeport	 - 100	 Very limited	 	 Very limited		 Very limited	

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Map symbol and soil name	 Pct. of map unit	manure and food processing was	_	Application of sewage sludge		Disposal of wastewater by irrigation	
	 	 Rating class and limiting features 	Value 	Rating class and limiting features		 Rating class and limiting features 	Value
		 Filtering capacity Droughty 	 1.00 0.93 	capacity	1.00 1.00 0.93 	Filtering capacity Droughty Too steep for surface application	 1.00 0.93 0.08
-	 100 	 Somewhat limited Restricted permeability 	 0.30 	 Somewhat limited Restricted permeability 	 0.22 	 Somewhat limited Restricted permeability Too steep for surface application	 0.22 0.08
836C2: Kilkenny	 95 	 Somewhat limited Restricted permeability 	 0.30 	 Somewhat limited Restricted permeability 	 1	 Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	 0.92 1 0.22 0.02
836E2: Kilkenny	 95 	 Somewhat limited Slope Restricted permeability 	 0.96 0.30 1 1	 Somewhat limited Slope Restricted permeability	 0.96 0.22 		1.00
879: Fostoria	 95 	 Very limited Depth to saturated zone (NOV-JUL)	 1.00 	 Very limited Depth to saturated zone (NOV-JUL)	 1.00 	 Very limited Depth to saturated zone (NOV-JUL)	1 1.00
956: Harps	 55 	 Very limited Depth to saturated zone (NOV-JUL)	1 1.00	 Very limited Depth to saturated zone (NOV-JUL)	11.00	 Very limited Depth to saturated zone (NOV-JUL)	11.00

USDA-NRCS, IOWA 07/16/2004

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

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and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg 		Disposal of wastewater by irrigation		
		=		Rating class and limiting features		-		
	 	 Leaching limitation	0.70	 	 		 	
Okoboji	35	Depth to saturated zone (NOV-JUL) Ponding Leaching limitation	1.00 1.00	saturated zone (NOV-JUL) Ponding Restricted permeability	1.00 1.00 0.22	saturated zone (NOV-JUL) Ponding	 1.00 1.00 0.22 	
1032: Spicer	 95 	Depth to saturated zone (NOV-JUL)	1.00	Depth to saturated zone (NOV-JUL)		 Very limited Depth to saturated zone (NOV-JUL) 	1 1.00	
1052B: Bode	 60 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	 0.08 	
Kamrar	 35 				0.22	 Somewhat limited Restricted permeability Too steep for surface application	 0.22 0.08 	
1135: Coland	 95 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	(NOV-JUL)	 1.00 1.00	
1221: Palms	 100 	 Very limited Depth to saturated zone (NOV-JUL)	1 1.00	 Very limited Depth to saturated zone (NOV-JUL)	 1.00 	 Very limited Depth to saturated zone (NOV-JUL)	1 1.00	

USDA-NRCS, IOWA 07/16/2004

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

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and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	
	 	Rating class and limiting features 		Rating class and limiting features 		 Rating class and limiting features 	
	 		11.00	Ponding	11.00	 Ponding 	11.00
1259: Biscay	 	Ponding Depth to saturated zone (NOV-JUL) Filtering capacity	1.00 1.00 	Ponding Depth to saturated zone (NOV-JUL) Filtering capacity	1.00 1.00 	 Very limited Ponding Depth to saturated zone (NOV-JUL) Filtering capacity	 1.00 1.00 1.00
1339: Truman	1100	 Not limited		 Not limited		 Not limited	
1339B: Truman	 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	0.08
1506: Wacousta	 100	 Very limited	İ	 Very limited	İ	 Very limited	i I
	 	saturated zone (NOV-JUL) Ponding	İ	saturated zone (NOV-JUL) Ponding	 	Depth to saturated zone (NOV-JUL) Ponding 	1.00 1.00
1507: Brownton	 95 		11.00	saturated zone (NOV-JUL)	1.00 	 Very limited Depth to saturated zone (NOV-JUL) Restricted permeability	 1.00 1.00
1595: Harpster	 95	 Very limited	 	 Very limited		 Very limited	

FIELD OFFICE TECHNICAL GUIDE Sec. II
WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

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and soil name	 Pct. of map unit	manure and food processing was	_	Application of sewage sludg 	Disposal of wastewater by irrigation		
	 					 Rating class and limiting features 	
	 	saturated zone (NOV-JUL)	 1.00 0.70	saturated zone (NOV-JUL)		 Depth to saturated zone (NOV-JUL) 	11.00
1733: Calco	 95 	Depth to saturated zone (NOV-JUL) Flooding	1.00 		11.00	saturated zone (NOV-JUL)	 1.00 1.00
2222: Adrian	 100 	Depth to Saturated zone (NOV-JUL) Ponding Filtering capacity Leaching limitation	1.00	Depth to saturated zone (NOV-JUL) Ponding Filtering capacity Too acid	1.00 1.00 1.00	saturated zone (NOV-JUL) Ponding Filtering capacity	 1.00 1.00 1.00 1.00 1.00
4000: Urban Land	 100 	 Not rated 	 	 Not rated 	 	 Not rated 	
5010: Pits	 100 	•	 	 Not rated 	 	 Not rated 	
5040: Orthents	 90 	 Not rated 	 	 Not rated 	 	 Not rated 	

USDA-NRCS, IOWA 07/16/2004

FIELD OFFICE TECHNICAL GUIDE Sec. II WASTE DISPOSAL INTERPRETATIONS

Agricultural Waste Management

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and soil name	 Pct. of map unit	manure and food- processing waste		Application of sewage sludge		 Disposal of wastewater by irrigation 	
	 	 Rating class and Va limiting features 		Rating class and limiting features		 Rating class and limiting features 	Value
AW: Animal Waste	 100 		 	 Not rated	 	 Not rated 	
INT: Intermittent Water	 100 		 	Not rated	 	 - Not rated - - -	
SL: Sewage Lagoon	 100 	 	 	Not rated	 	 - Not rated - - -	
W: Water	 100 		 	Not rated	 	 - Not rated - - -	